
AKAI

VS-G205/VS-G211 VS-G215EOH

Thank you for purchasing this AKAI video cassette recorder.
To ensure optimum performance of this unit, please read this
operator's manual thoroughly.

VIDEO CASSETTE RECORDER

Operator's Manual 1-32

HQ
HIGH QUALITY

VHS
PAL

SHOWVIEW

Akai—Creative At Heart.

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Features

- SHOWVIEW timer recording
- Intelligent-HQ system
- Centre cassette loading
- Quick servo drive
- Automatic tuning
- Auto tracking
- Programmable timer recording (4-programme/1-year timer)
- One Touch Recording
- Quick finder
- Forward and reverse multi-speed playback
- LCD infrared remote control
- Auto head cleaning

Automatic features

Auto power on

The VCR power is automatically turned on when the tape is inserted.

Auto rewind

The video tape is automatically rewound when the end of the tape is reached during the play, recording or quick finder forward mode.

Auto tape reject

If a video tape with its recording defeat tab removed is loaded, the VCR will automatically eject it when the record or timer button is pressed.

Auto play

If the video tape's recording defeat tab has been removed, playback will begin automatically when the tape is inserted into the VCR.

Power off eject

Even when the VCR's power is off, pressing the eject button will turn the power on and eject the tape. Once ejected, the power will be turned off automatically.

Auto head cleaning

When a tape is loaded or ejected the VCR video head drum is cleaned automatically.

Warnings and precautions

WARNING

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

1-En

Power requirements

Power requirements for electrical appliances differ from area to area. Please ensure that your appliance meets the Power requirements in your area.

The operating voltage of this appliance is fixed at AC 220-230 V, 50 Hz.

2-En

This equipment conforms to NO. 82/499/EEC, 87/308/EEC standards.

3A-En

This appliance is not equipped with a main power switch. Even when the appliance is turned off, the power supply is not completely turned off when the power cord is plugged in. Pull out the power cord when not using the appliance for long periods.

4-En

Power failure backup

This VCR utilizes a back-up capacitor for possible power failure. The back-up capacitor prevents clock stoppage and loss of programme information (for timer-controlled recording) in the event of a power failure lasting up to 60 minutes. (When this VCR is first plugged in, approximately 60 minutes are required to charge the back-up capacitor in order to provide 60 minutes of back-up time).

Power failure indication

If a power failure of more than 60 minutes has occurred "----" will be flashing on the FL display. In this case the clock must be re-set. Refer to the "Setting the clock" section.

Use only video tapes marked "VHS" with this VCR.

What you should know to protect yourself

- Never touch the power cord's plug with wet hands.
- Always pull the power cord out by the plug and never by the cord.
- Only let a qualified professional repair or reassemble the video cassette recorder. An inexperienced person might touch the internal parts and get a serious electric shock.
- Never put anything, especially metal, into the video cassette recorder.

Protect the VCR too

- Use a household AC power source only. Never use a DC power source.
- Do not place anything heavy on top of the VCR.
- If water is spilled on the VCR, disconnect the power cord at once and consult your dealer.
- Make sure that the VCR is well ventilated, and do not place anything on top of the ventilation holes.
- To avoid damage to the internal circuits and the external surface, keep the VCR away from heat (stoves, direct sunlight, etc.).
- Avoid using aerosol sprays near the VCR as this could damage the finish or cause sudden ignition of the spray.
- To avoid damaging the finish, never use paint thinner or other similar chemicals to clean the VCR.
- Place the VCR on a flat and solid surface.
- If you do not plan to use the VCR for a long period of time, disconnect the power cord.
- Avoid using the VCR in extremely hot, cold, humid or dusty places.
- Avoid using the VCR near appliances generating strong magnetic fields.
- Avoid using the VCR near fluorescent lamps as this may shorten the operating range of the remote control unit.

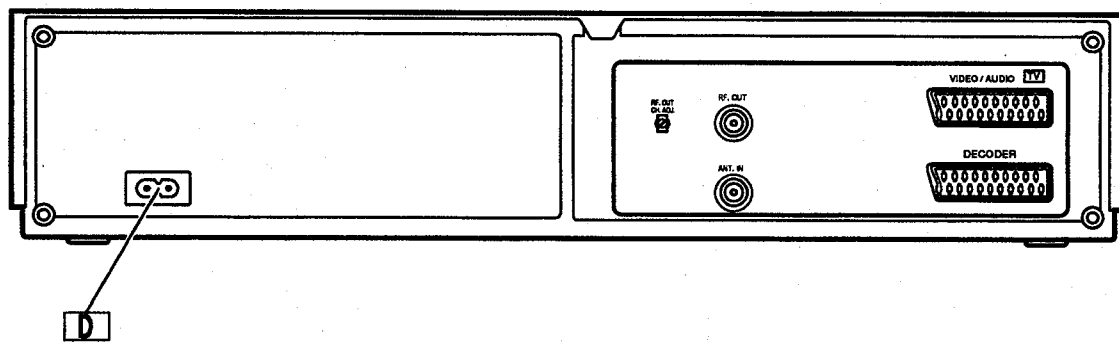
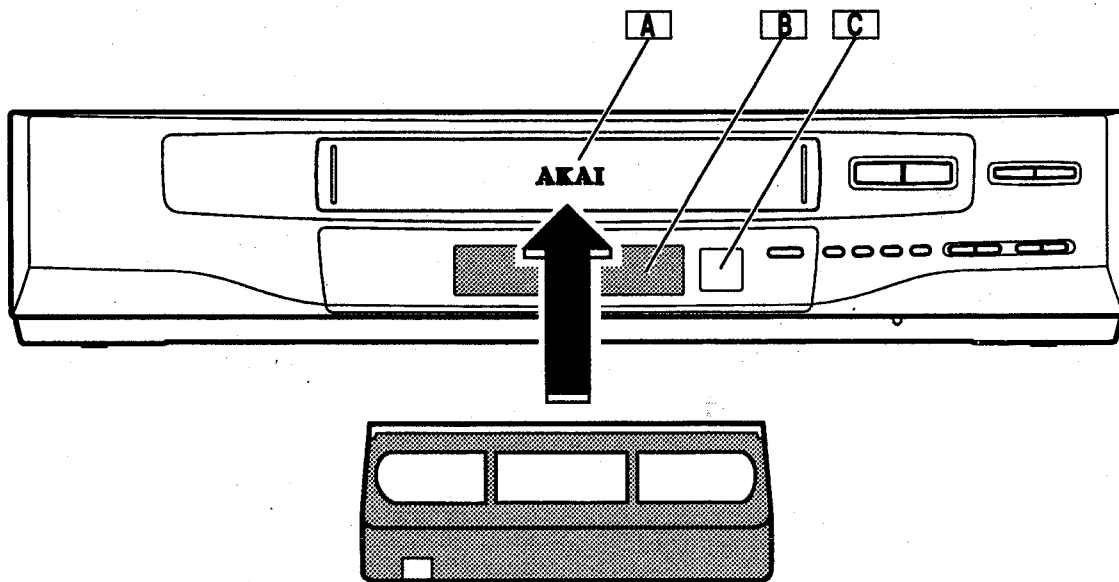
When transporting

- Avoid violent shocks to the VCR during packing and transportation.
- Before packing, remove the video tape from the VCR.

Avoid moisture condensation

Moving the video cassette recorder from a cold place to a warm place can cause dew condensation on the drum and the video heads inside the unit. If playback is carried out in this state, the heads may become dirty and the tape may be damaged.

To prevent this from occurring, the power plug must be plugged in for about one hour with the POWER button off, before playback or recording of a video cassette tape. This is particularly important when a video cassette is inserted for the first time after purchase of the video cassette recorder.



Controls & terminals

Front panel

- A** **Cassette loading slot**
Load the VHS video tape here.
- B** **FL (Fluorescent) display**
Provides visual reference of the VCR's operating modes.
- C** **Remote sensor window**
For reception of the remote control's signal.
- / ▲ Stop/eject button**
To stop playback and eject the video tape. The tape can be ejected even when the VCR's power is off.
- Play button**
To start video tape playback.
- ◀◀ Rewind button**
To rewind the video tape. Also to start reverse quick finder during playback.
- ▶▶ Fast forward button**
To fast forward the video tape. Also to start forward quick finder during playback.
- POWER/standby button**
To turn the VCR on or off (standby mode).
- PROG.(Programme) button**
To enter the timer programming mode and enter programme data.
- OK/CANCEL button**
To confirm/cancel preset TV channels, clock or timer recording data.
- CLOCK button**
To enter the clock setting mode. Also to enter clock data.
- TIMER button**
To set or cancel the timer recording mode.
- CHANNEL button**
To select TV channels.
- I-HQ (Intelligent-High Quality) button**
To improve picture quality during recording or playback.
- REC/OTR (Record/One Touch Recording) button**
To start recording. Also used to enter the OTR mode and set the OTR stop time.

The FL display can be dimmed or brightened by repeatedly pressing the DIMMER button on the remote control.

Rear panel

- D** **AC power socket**
Connect the provided power cable here.
- RF.OUT CH.ADJ. (Channel adjustment) screw**
To adjust the video channel of the VCR.
- RF.OUT terminal**
To connect the VCR to the TV's ANTENNA IN terminal.
- ANT.IN terminal**
For TV antenna connection.
- VIDEO/AUDIO terminal**
For connection of a TV or second VCR when using a video/audio connection cord.
- DECODER terminal**
For connection of a decoder.

Remote control (211EOH)

A LC (Liquid Crystal) display
Displays clock and programme data.

PROG. (Programme) button
For timer programming, using the remote control's LC display.

PROG.LIST button
To preview programmes set for timer recording.

1 - 0 buttons
To select TV channels. Also used for entering clock, and programming data.

TIMER button
To set or cancel the timer recording mode.

DIMMER button
To dim or brighten the FL display.

AV (External) button
To set the VCR to record from an external source.

CLOCK button
To set the remote control's clock.

^, v, <, > Multi control buttons
To adjust tracking, picture shake and picture sharpness during playback.

OK button
To confirm data during clock setting and timer programming.

(*) CANCEL button
To cancel preset TV stations or programmes programmed for timer recording. Also used to adjust for daylight saving time.

AUTO TRACKING button
To correct tracking automatically.

PAL/MESECAM button
To set the VCR for PAL or MESECAM recording and playback.

COUNTER RESET button
To reset the tape counter.

POWER ON/STANDBY button
To turn the VCR's power on or off (standby mode).

TV/VCR button
To watch a different TV programme than the one you are recording.

Eject button
To eject the video tape from the VCR.

CHANNEL buttons
To select TV channels.

MULTI-SPEED (+ / -) buttons
To increase or decrease the playback speed.

Still button
To set the VCR to the still mode from the playback mode.

Index search reverse button
To start the reverse index search.

I-HQ (Intelligent High Quality) button
To set the I-HQ mode.

Index search forward button
To start the forward index search.

Rewind button
To rewind the video tape. Also used to start reverse quick finder during playback.

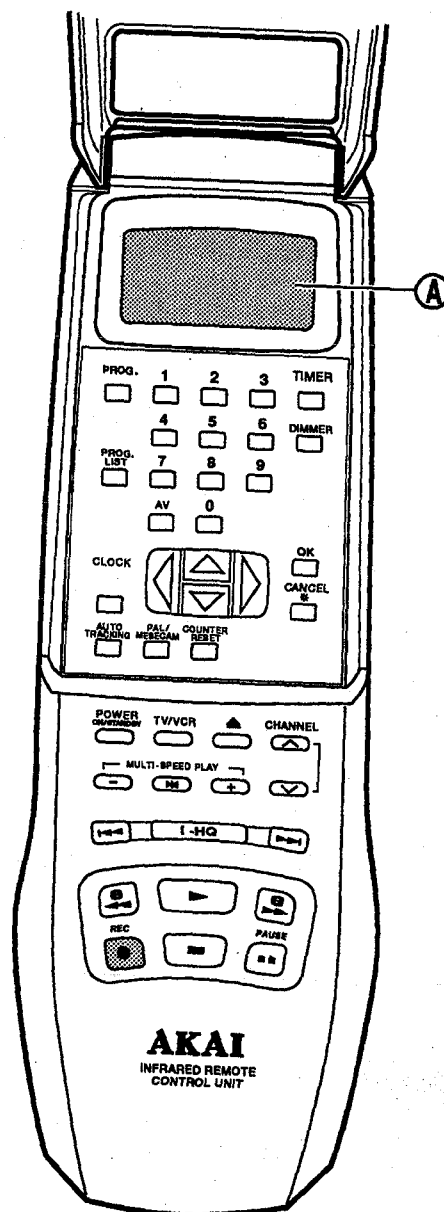
Play button
To start video tape playback.

Fast forward button
To fast forward the video tape. Also to start forward quick finder playback.

REC (Record) button
To start recording.

Stop button
To stop the video tape.

PAUSE button
To set the VCR to the recording pause mode from the recording or stop mode.



Remote control (215EOH)

A LC (Liquid Crystal) display
Displays clock and programme data.

SHOWVIEW button
To enter the SHOWVIEW timer recording mode.

PROG. button
To set timer programming using the VCR FL display.

PROG.LIST button
To preview programmes set for timer recording.

1 - 0 buttons
To select TV channels. Also used for entering clock, SHOWVIEW and programming data.

TIMER button
To set or cancel the timer recording mode.

DIMMER button
To dim or brighten the FL display.

AV (External) button
To set the VCR to record from an external source.

REVIEW button
To review SHOWVIEW guide channel numbers.

CLOCK/CH button
To set the remote control's clock. Also to adjust preset TV channels for the SHOWVIEW mode.

^, v, <, > Multi control buttons
To adjust tracking, picture shake and picture sharpness during playback.

OK button
To confirm data during clock setting and timer programming.

(*) CANCEL button
To cancel preset TV stations or programmes programmed for timer recording. Also used to adjust for daylight saving time.

AUTO TRACKING button
To correct tracking automatically.

PAL/MESECAM button
To set the VCR for PAL or MESECAM recording and playback.

COUNTER RESET button
To reset the tape counter.

POWER ON/STANDBY button
To turn the VCR's power on or off (standby mode).

TV/VCR button
To watch a different TV programme than the one you are recording.

Eject button
To eject the video tape from the VCR.

CHANNEL buttons
To select TV channels.

MULTI-SPEED (+ / -) buttons
To increase or decrease the playback speed.

Still button
To set the VCR to the still mode from the playback mode.

Index search reverse button
To start the reverse index search.

I-HQ (Intelligent High Quality) button
To set the I-HQ mode.

Index search forward button
To start the forward index search.

Rewind button
To rewind the video tape. Also used to start reverse quick finder during playback.

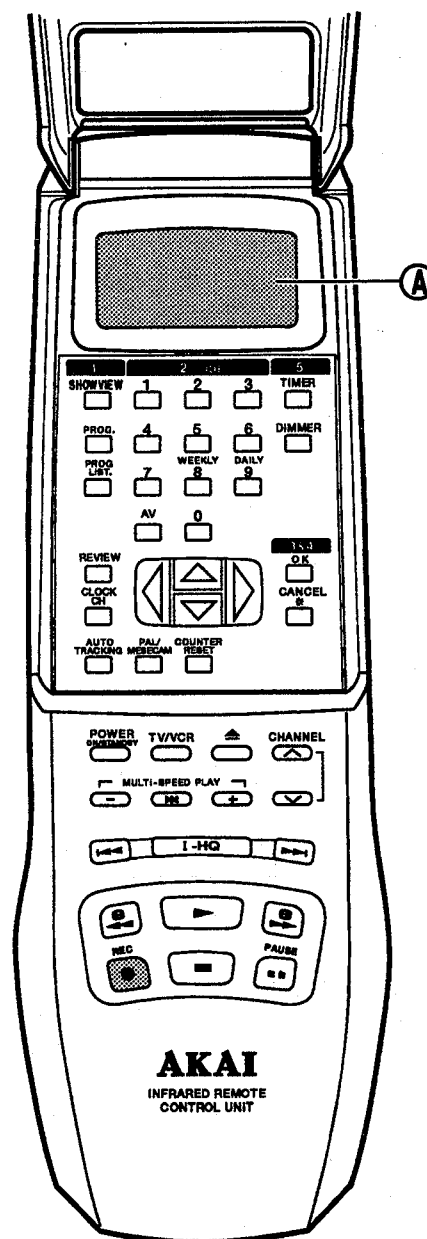
Play button
To start video tape playback.

Fast forward button
To fast forward the video tape. Also to start forward quick finder playback.

REC (Record) button
To start recording.

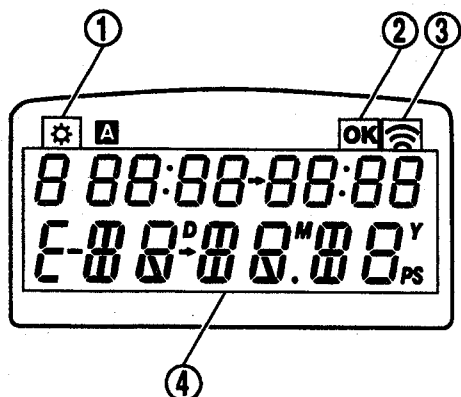
Stop button
To stop the video tape.

PAUSE button
To set the VCR to the recording pause mode from the recording or stop mode.



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Remote control LC (Liquid Crystal) display



- ① **Daylight saving time indicator**
Indicates that the clock is set to the daylight saving time.
- ② **OK display**
Appears when data is ready to be transmitted to the VCR.
- ③ **Transmit indicator**
Indicates when data in the remote control is transmitted, or is ready to be transmitted, to the VCR.
- ④ **Data display**
All clock and programming data is displayed here (illustrations are provided later in the manual).

The "A" display signifies that this is an A type remote control. However, this has no operational significance with this VCR.

Make your contribution to protect the environment
Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can. Please leave them at an appropriate depot.

29A-En

Loading the batteries

- 1 Open the battery compartment cover on the back of the remote control (refer to the illustration below).
- 2 Insert two AA,R6, UM-3 or equivalent size batteries (refer to the illustration below).
- 3 Replace the battery compartment cover.

Note:

- Use new batteries only.
- When replacing the batteries, replace both the batteries at the same time. Do not mix an old battery with a new one.
- When you do not plan to use the remote control unit for a long period of time, remove the batteries.
- Insert the batteries following the polarity guides (- and +) in the battery compartment.
- Nickel cadmium (Ni-Cd) batteries are not recommended.

When the remote control's batteries are removed or have lost their charge (as indicated by LC display becoming dim, or by the remote control's incapacity to transmit data) the clock will stop and all programme data in the remote control will be cancelled after a short time.

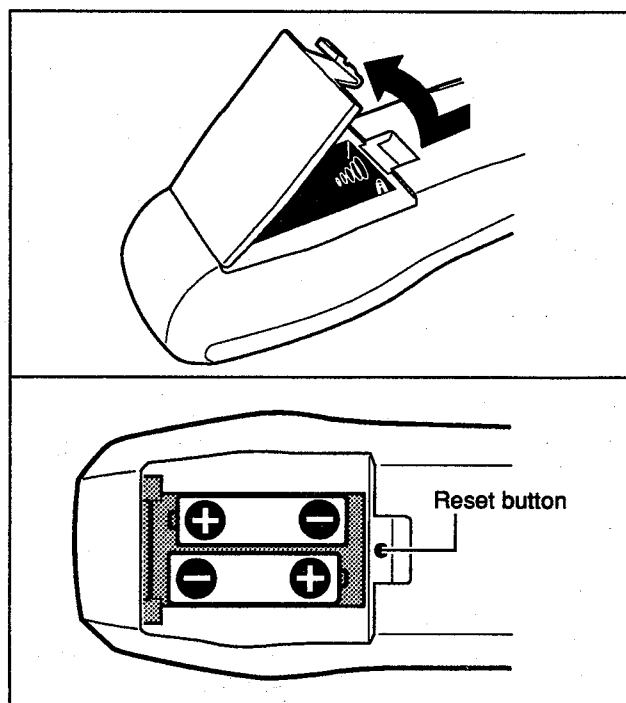
After replacing the batteries, use the remote control to reset the clock and programme data. If the batteries are replaced quickly, after removing the old batteries, the clock and programme modes may not be cancelled.

While changing the batteries, do not press any of the remote control buttons.

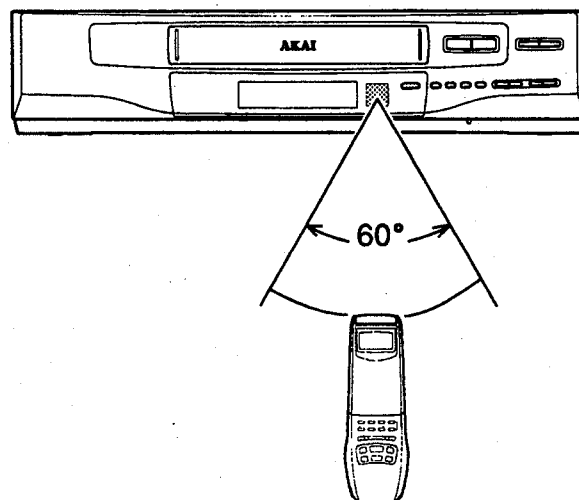
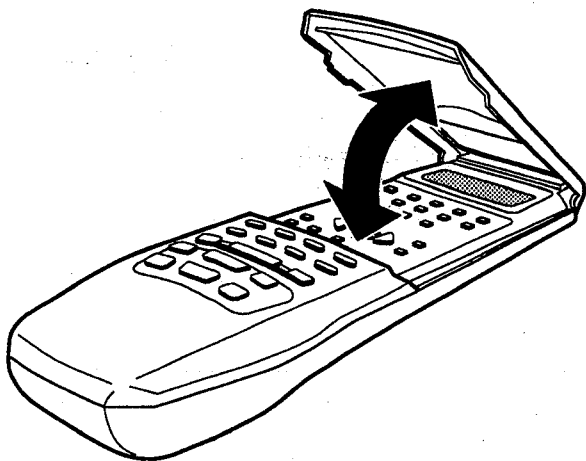
Resetting the remote control

If the remote control fails to operate properly, it can be reset by pressing the reset button, located inside the battery compartment.

When the reset button is pressed, all timer programming and clock data will be cancelled.



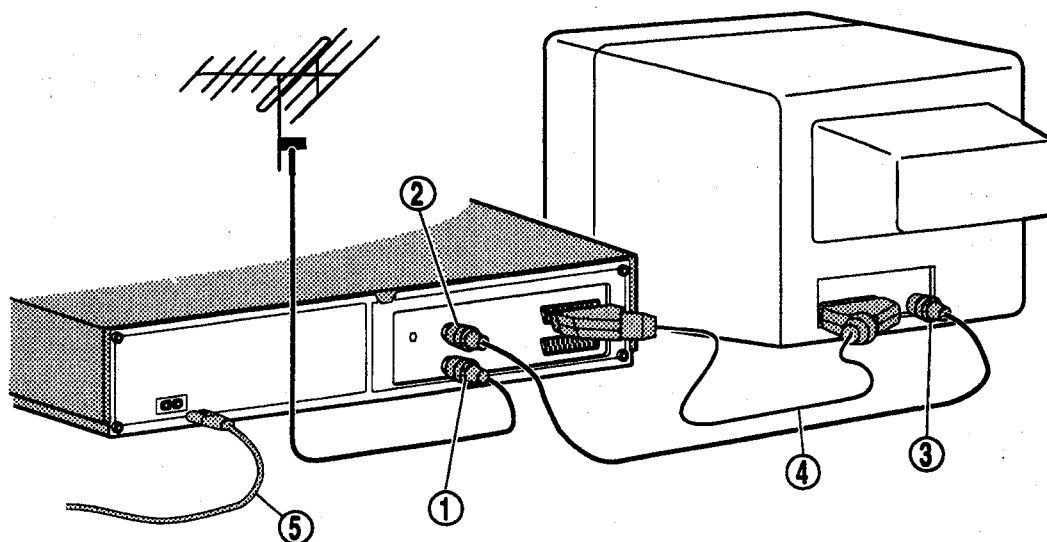
To open the remote control door



Connections

This VCR has a built-in tuner to receive TV stations, so it must be connected to your TV antenna as shown below.

Basic connection



1 Connect the TV antenna cable to the VCR's ANT.IN terminal.

2 Connect one end of the provided connection cord to the VCR's RF.OUT terminal.

3 Connect the other end of the provided connection cord to the TV's antenna terminal.

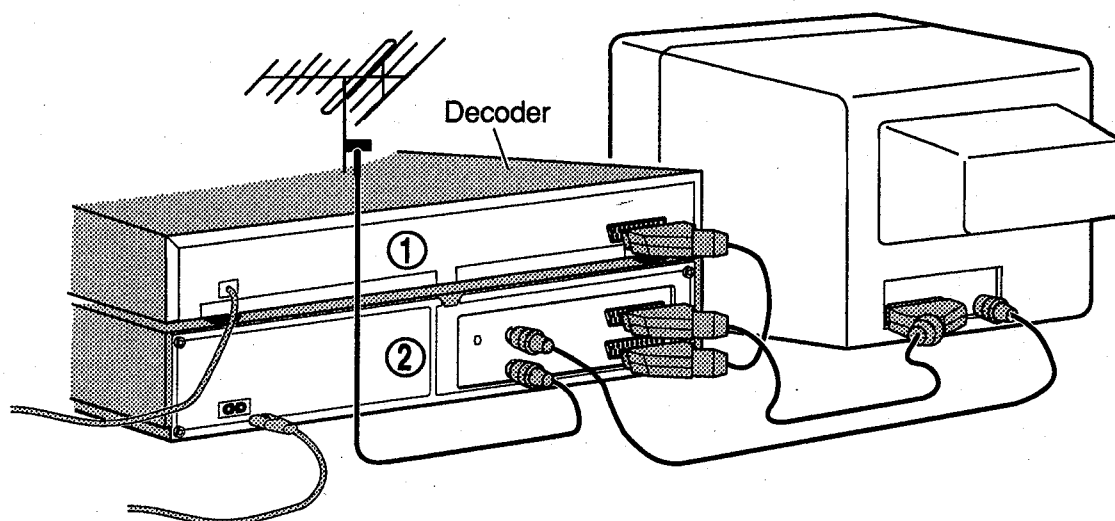
4 If your TV has a 21 pin audio/video socket, connect an audio/video cable (scart) for better sound and picture quality (this cable is optional and is available from your audio/video dealer).

5 Connect the provided power cable to the AC socket.

6 Connect the AC power cord to the AC outlet.

Decoder connection

The rear panel of your decoder may differ from the one shown below. For correct/alternative connections, refer to your decoder's operator's manual.



■ Connect the decoder ① to the VCR's DECODER terminal ②.

Whenever a coded programme is received, the VCR will automatically decode it.

The video tape

Inserting a video tape

- **Insert the video tape as shown on page 4, and push the centre of the tape gently into the VCR.**
The VCR will be turned on automatically and the video tape will be loaded automatically.
When a video tape is inserted, the "  " indicator will appear on the FL display.

Note:

- When a video tape with the recording defeat tab removed (for example a prerecorded tape) is inserted, playback will start immediately.

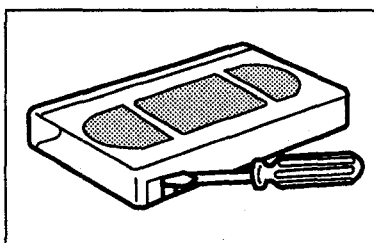
Quick start mode

When a video tape is inserted into this VCR any function button pressed will operate immediately. If a function button is not pressed within 5 minutes, the VCR will be released from the quick start mode. If the play or record button is pressed after the 5 minute period there will be a short time before the VCR responds.

Ejecting a video tape

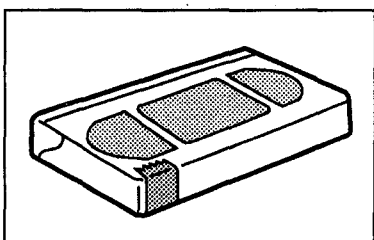
- **Press the  /  stop/eject button.**
When the VCR is in the stop mode, press the button once to eject the tape (the eject button on the remote control can also be used). **During the playback or record mode press the button twice (once to stop the tape and twice to eject it).**

To prevent accidental erasure of prerecorded tapes:



Break off the recording defeat tab with a screwdriver.

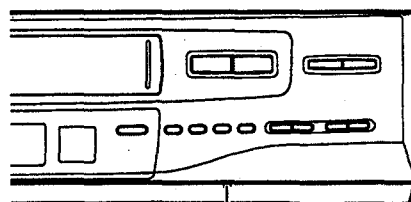
To record over tapes with the recording defeat tab removed:



Cover the hole with adhesive tape.

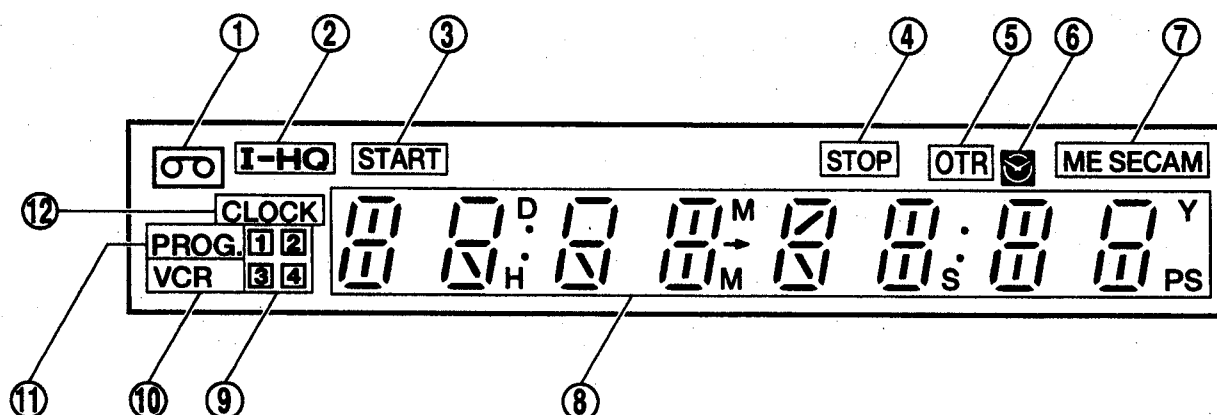
In case of malfunction

A large amount of static electricity may cause this VCR to malfunction or stop functioning completely. In this case, press the reset button to reset the micro-processor. Clock and programme data will be cancelled when the reset button is pressed.



Reset button

FL (Fluorescent) display



The FL display can be dimmed or brightened by repeatedly pressing the DIMMER button on the remote control.

- ① **Tape load indicator**
Lights when the video tape has been loaded.
- ② **I-HQ indicator**
Lights when the VCR is in the I-HQ mode.
- ③ **START indicator**
Lights when setting the timer programming start time.
- ④ **STOP indicator**
Lights when setting the timer programming stop time.
- ⑤ **OTR (One Touch Recording) indicator**
Lights during the OTR mode.
- ⑥ **Timer indicator**
Lights when the VCR is in the timer recording mode.
- ⑦ **MESECAM indicator**
Lights when the VCR is set for MESECAM recording or playback.
- ⑧ **Multi function display**
The clock appears when the VCR's power is off, and the channel number appears when the VCR's power is on. When a tape is playing, the elapsed time of the tape is shown (in hours, minutes and seconds). Also indicated are the modes below:

RU : When recording from an external source.

PLAY : Playback

STILL : Still

SLOW : Slow motion playback

STOP : Stop

REC : Recording

F - FWD : Fast forward

F - RWD : Fast rewind

CUE : Cue-forward quick finder

REV : Review-reverse quick finder

SRCH+/SRCH- : Index search forward/reverse

- ⑨ **Programme number indicators (1-4)**
Light to show how many programmes have been set for timer recording.
- ⑩ **VCR mode indicator**
Lights when the TV/VCR button is set to VCR.
- ⑪ **PROG. indicator**
Lights during timer programming.
- ⑫ **CLOCK indicator**
Lights during clock setting and when the clock is displayed on the FL display.

Video channel

If your TV already has a preset video channel, this channel should be used to assure the best sound and picture quality. As this channel varies from country to country, you should check your TV's operator's manual to see which is the video channel for your TV.

When a video/audio connection cord is used for connection of the VCR and TV (refer to "Connections"), setting the video channel is not necessary, in this case simply set the TV's TV/VCR switch to VCR.

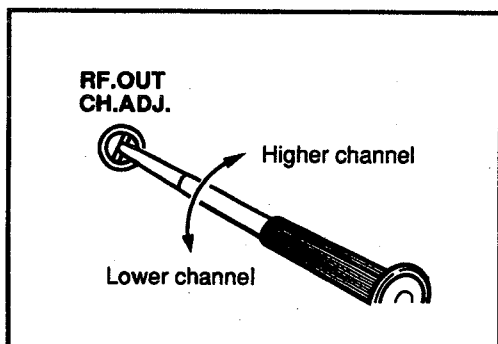
This VCR is preset to channel 36 (UHF) and if your TV's video channel is also 36 (UHF), no adjustments are necessary.

If UHF channel 36 is being used for broadcasting:

You can set the TV to a channel between UHF channels 30-39 and tune the VCR into that channel.

- 1 Insert a prerecorded tape into the VCR and press the play ► button.
- 2 Set the TV to a blank channel between UHF 30-39.
- 3 Slowly adjust the RF.OUT CH.ADJ. screw on the rear panel until the playback picture appears. If you do not have a prerecorded tape, adjust the screw until the screen becomes clear black (no interference).

This is now your video channel.



Using an empty channel on your TV

- 1 Insert a prerecorded video tape into the VCR and press the ► play button to start playback.
- 2 Choose an empty channel on your TV to use as the video channel. Tune the channel (using the TV station tuner on your TV) until you receive the playback picture from the VCR.
- 3 Press the ■ stop button to stop playback. This channel will then be your video channel.

Using your TV's preset video channel

For example, if your TV's video channel is 50:

- 1 Turn the VCR on and set the TV to channel 50.
- 2 Insert a prerecorded tape into the VCR and press the play (►) button.
- 3 Adjust the TV station tuner on your TV and tune the channel until you receive the clearest playback picture. Select this channel each time you want to use the VCR. If you do not have a prerecorded tape, adjust the channel until the screen becomes clear black (no interference).

TV/VCR mode

When the VCR is connected to your TV with a SCART audio/video cable (see "Connections") it can automatically switch between the TV and VIDEO mode of your TV. This VCR will automatically be set to the VCR mode when it is turned on ("VCR" will light on the FL display) ready for VCR operation (playback picture viewing etc.).

This means that if you are watching a TV programme when the VCR is turned off, when you turn the VCR on the TV picture will change to the channel selected on the VCR.

Note:

- If the VCR and TV are only connected using the antenna connections (RF IN/OUT), there will be no change when the VCR is turned on, however, you have to set the TV to the video channel to watch videos etc..

If you want to change the VCR so that it is set to the TV mode each time the power is turned on (so that it doesn't interfere with normal TV viewing if you turn it on just to rewind a tape etc.) follow the step below.

- Press the front panel CHANNEL ^ button (when the power is off) until "VCR" flashes on the FL display then disappears. To reset to the VCR mode, repeat the operation until "VCR" appears on the FL display.

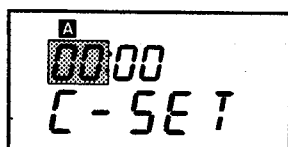
Setting the clock

This VCR has a built-in digital timer clock which must be set to the present time. This clock is used to keep the time and for timer recording. The VCR uses a 24 hour clock: 7:30 pm = 19:30 on the FL display.
When the VCR is first plugged in, the clock display will automatically start flashing.

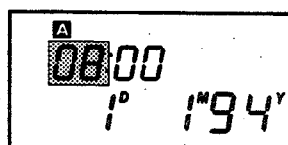
The clock can be set using either the remote control or the VCR front panel buttons.
We suggest setting the clock on the LC display of the remote control and transmitting the time to the VCR, thus synchronizing the remote control and VCR.

Using the remote control

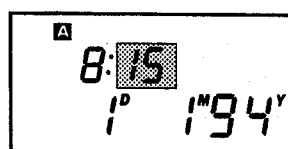
- 1 Press the **CLOCK** button (211EOH).
Press the **CLOCK/CH** button (215EOH).
The clock set screen will appear on the LC display.
The point ready for data entry will be flashing.



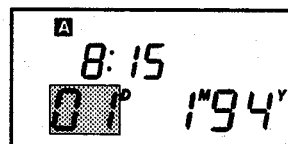
- 2 Set the hour with the $\wedge$ or $\vee$ button.
 $\wedge$: Press this button to count up.
 $\vee$: Press this button to count down.



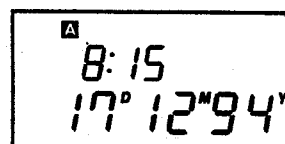
- 3 Press the $>$ button.
The minutes will flash.
- 4 Set the minutes with the $\wedge$ or $\vee$ button.
When the $\wedge$ or $\vee$ button is pressed continuously, the minutes will increase or decrease at 5 minute intervals.



- 5 Press the $>$ button.
The date will flash.



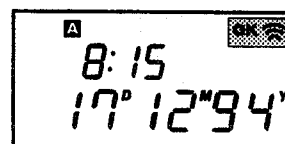
- 6 Set the date, month and year with the $\wedge$, $\vee$, $<$ or $>$ buttons.
The weekday is set automatically.



Daylight saving time

- When setting the clock during the daylight saving time period, press the (⚙) **CANCEL** button.
The "⚙" indicator will be displayed on the LC display.

- 7 Press the **OK** button to start the clock.
The clock will start and the transmit indicator will flash.
Clock data can now be transmitted to the VCR.



- 8 Point the remote control at the VCR's remote sensor window and press the **OK** button to transmit the clock data.
The time will appear on the VCR's FL display.
- 9 Press the **CLOCK** button (211EOH) to return the remote control to the normal mode.
Press the **CLOCK/CH** button twice (215EOH) to return the remote control to the normal mode.

Note:

- Steps 2 to 6 can also be set using the 1 - 0 buttons. Instead of using the $\wedge$ and $\vee$ buttons.
To set a single digit number press the 0 (zero) first then press the number.
For example to set 8:15; press 0 (zero) then 8 then 1 and then 5. If you use the 1 - 0 buttons for data entry you do not need to press the $>$ button to start the next data flashing.
- If you make a mistake while setting the clock, move to the data you want to correct with the $<$ or $>$ button then re-enter the data with the $\wedge$ or $\vee$ button or 1 - 0 buttons.

Re-transmitting clock data

Clock data is retained in the remote control after it is transmitted to the VCR. If the VCR's clock data is cancelled (because of a power failure, etc), or if the data is wrong, the clock data in the remote control can be re-transmitted to the VCR.

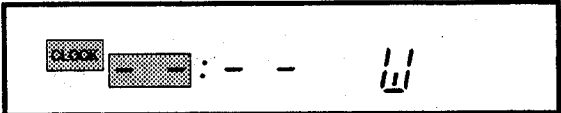
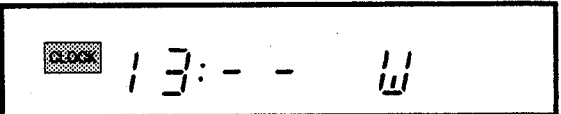
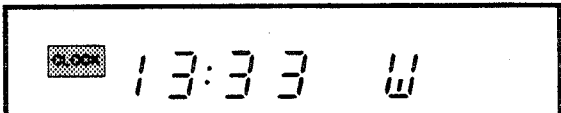
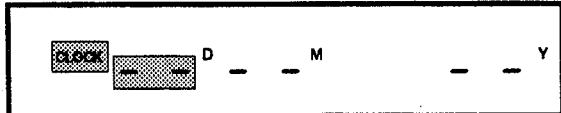
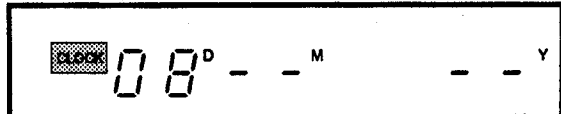
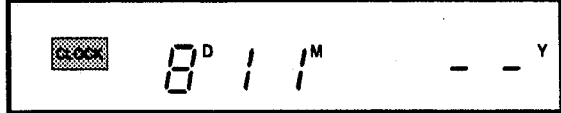
- 1 Press the **CLOCK** button (211EOH).
Press the **CLOCK/CH** button (215EOH).
The year will appear on the LC display along with the clock data.
- 2 Point the remote control at the VCR's remote sensor window and press the **OK** button twice to transmit the clock data.
- 3 Press the **CLOCK** button (211EOH) to return the remote control to the normal mode.
Press the **CLOCK/CH** button twice (215EOH) to return the remote control to the normal mode.

Daylight saving time

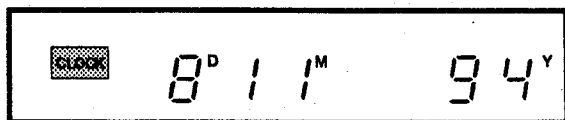
To adjust for the daylight saving time period the VCR's clock can easily be set one hour ahead, or one hour back.

- 1 Press the **CLOCK** button (211EOH).
Press the **CLOCK/CH** button (215EOH).
The year will appear on the LC display along with the clock data.
- 2 Press the (⚙) **CANCEL** button.
If the clock is set to the normal time the clock will advance one hour ahead and the "⚙" indicator will appear on the LC display.
If the clock is set to the daylight saving time the clock will be set one hour back and the "⚙" indicator will disappear.
- 3 Point the remote control at the VCR's remote sensor window and press the **OK** button to transmit the new clock data.
- 4 Press the **CLOCK** button (211EOH) to return the remote control to the normal mode.
Press the **CLOCK/CH** button twice (215EOH) to return the remote control to the normal mode.

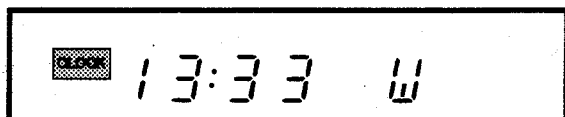
Using the VCR front panel buttons

- 1 Press the **CLOCK** button.
The hour position will flash.
The "W" display is explained in step 12.
- 
- 2 Press the **CLOCK** button until the hour is set.
The hours will repeat cyclically if you keep pressing the button.
- 
- 3 Press the **OK** button (DO NOT hold the button down as this will cancel the data).
The minutes position will flash.
 - 4 Press the **CLOCK** button until the minutes are set.
The minutes will repeat cyclically if you keep pressing the button.
- 
- 5 Press the **OK** button.
The Day (D), Month (M) and Year (Y) display will appear.
The day position will be flashing.
- 
- 6 Press the **CLOCK** button until the day is set.
The numbers will repeat cyclically if you keep pressing the button.
- 
- 7 Press the **OK** button.
The month position will flash.
 - 8 Press the **CLOCK** button until the month is set.
- 
- 9 Press the **OK** button.
The year position will flash.

10 Press the CLOCK button until the year is set.



11 Press the OK button.
The "CLOCK" display will flash.



12 If you are setting the clock during the winter daylight saving time: Press the CLOCK button, the clock will start.
If you are setting the clock during the summer daylight saving time: Press the remote control's CANCEL button, "S" will appear on the FL display and the clock will start.

Note:

- If you do not enter data within 5 minutes when the position starts flashing, the clock mode will cancel and all the data will have to be entered again.
- Clock setting can be done while the power is on or off.
- While the clock is displayed on the FL display you can cancel the time by holding down the OK/CANCEL button until the data is cancelled.

In steps 2-10, the remote control <, >, ^ or v buttons can be used in place of the CLOCK and OK buttons:

- < / > : to move to the next or previous data.
- ^ : to increase the number.
- v : to decrease the number.

Daylight saving time

In the operation on the previous page, in steps 11 and 12 you have the choice of selecting winter daylight saving time ("W") or summer daylight saving time ("S").

This VCR allows you to easily set the clock either one hour forward or backward when the daylight saving time changes.

For example, you have set the clock during the winter time ("W"):

To set the clock to the summer daylight saving time:

- **Press the CLOCK button until the clock display showing "W" appears.**
- **Press the remote control's CANCEL/ ⚙ button.**
The hour will automatically advance one hour.
The same operation done when the summer time "S" is displayed will set the clock back one hour.

Note:

- The Summer/Winter time can not be changed between 23:00 (11pm) and 00:59 (12:59am).

If you want to correct clock data at any time.

- 1 Press the CLOCK button until the clock display starts flashing.**
- 2 Press the OK button until you reach the number that you want to change.**
- 3 Correct the number with the CLOCK button.**
- 4 Press the OK button until the display returns to the normal display (clock or channel display).**

Presetting TV stations

This VCR contains a built-in tuner which can be used to receive TV broadcasts in place of your TV set. In order to use this tuner, the VCR must be tuned to the locally available TV stations. This procedure is called "presetting". Up to 45 stations can be preset.

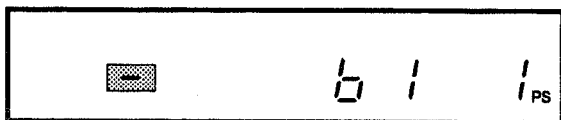
Preset the TV stations before loading a tape.

Automatic presetting

With this mode, the VCR automatically searches and presets the TV channels, starting at channel 1. **Only the VCR front panel buttons can be used.**

- **Press and hold the play ► button and then, at the same time, press the fast forward ►► button.**

The presetting display will appear and the VCR will automatically start presetting. When all the TV channels have been tuned in, the FL display will return to the normal display mode. You can then select the TV channels with the CHANNEL buttons.



Note:

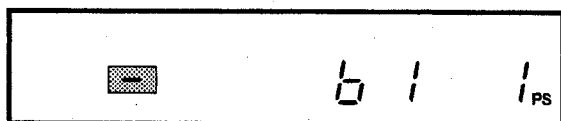
- To cancel the automatic presetting mode, press the stop/eject ■ / ▲ button.

Manual presetting

With this mode you can tune the TV programmes in manually and assign them to whichever channel numbers you want them to be on. **Only the VCR front panel buttons can be used.**

- 1 **Press and hold the play ► button and then, at the same time, press the POWER button.**

The presetting display will appear and the VCR will automatically start searching for the first available station. When the VCR reaches a station it will be displayed on the screen and the VCR will stop searching.



- **Searching will start on the VHF low band (b1) and proceed through the VHF high band (b2) and stop at the UHF band (b3). If you want to select a different wave band than the one displayed, keep pressing the rewind button ◀ until the band that you want is displayed.**

Note:

- If the "PS" number is flashing, no programme has been preset on that channel number.
- If the "PS" number remains lit, a programme has already been preset on that channel number.

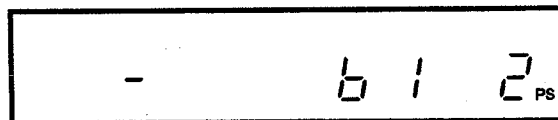
Before proceeding

- Turn on the TV and VCR.
- Make sure that the TV is set to the video channel or that the TV's TV/VCR switch is set to VCR (refer to "Video channel").

- 2 **If you want to keep the TV programme displayed on the screen, select a channel number (PS) with the CHANNEL buttons and press the play ► button to memorize it.**

The VCR will automatically start searching for the next programme.

If you do not want the VCR to memorize a programme, press the fast forward ►► button. The VCR will start searching for the next programme.



- 3 **When you have finished presetting, press the stop/eject ■ / ▲ button to return the VCR to the normal operating mode.**

You can press the stop/eject ■ / ▲ button at any time to cancel the presetting mode.

Cancelling preset TV stations

- **Select the TV channel, that you want to cancel, with the CHANNEL buttons and then press the CANCEL button for a few seconds until the channel number disappears and is replaced with the next highest channel number.**

After cancelling TV channels, you may be left with channels 1, 3, 5, 9 etc. (for example). If you want to change the channels so that they run in order (1, 2, 3, 4, etc.):

- **Press and hold the rewind ◀ button and then, at the same time, press the POWER button.**

The channels will be automatically converted.

This feature will not work if there is a tape loaded in the VCR.

For reception of weak TV stations

This VCR has a built-in mute system which cancels reception of weak TV stations (programmes with a weak signal that causes interference and poor sound/picture quality). However, if you want to preset a weak TV station that is being received by your TV but not by the VCR, the mute mode can be cancelled.

- **Mute off: With the VCR power off press the front panel CHANNEL ∨ button for a few seconds until "M" flashes on the FL display.**

The "M" display will disappear after a few seconds.

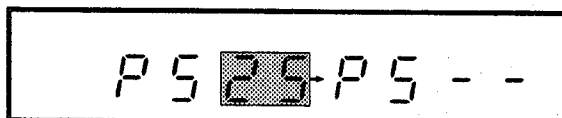
- **Mute on: To reset the mute mode, repeat the above procedure until "M" lights (not flashing) on the FL display.**

The "M" display will disappear after a few seconds.

Changing PS channel numbers

Use this feature if you want to change a preset channel to another number. For example, you may want to change channel 2 to become channel 6.

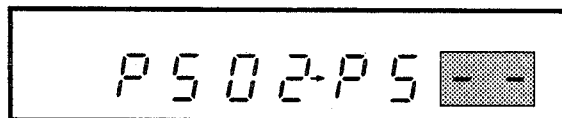
- 1 Press the fast forward ►► and stop/eject ■ / ▲ buttons at the same time.**
The FL display will change to the channel (PS) change mode.



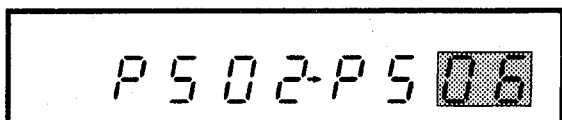
- 2 Select the channel that you want to change with the CHANNEL buttons.**



- 3 Press the OK button.**
The channel (PS) position to the right will start flashing.



- 4 Select the new number for the previous channel with the CHANNEL buttons.**



- 5 Press the OK button.**
The VCR will return to the normal mode, displaying the new channel number.

Playback

Before proceeding:

- Turn on the TV and VCR.
- Make sure that the TV is set to the video channel or that the TV's TV/VCR switch is set to VCR. (Refer to "Video channel".)

Tapes recorded in the Long Play (LP) speed can not be played back on this VCR.

Playback of E-300 tapes is not recommended.

1 Load a pre-recorded video tape.

2 Press the ► play button to start playback.

If the video tape's recording defeat tab has been removed, playback will begin automatically. "PLAY" and "I-HQ" will light on the FL display. The dot to the right of "PLAY" indicator will flash until automatic tracking is completed. If there are disturbances in the playback picture refer to the following "Tracking/Picture/Stability" section.

3 Press the ■ stop button to stop playback.

"STOP" will light on the FL display.

■ Press the ►► fast forward button to fast forward the video tape.

"F-FWD" will light on the FL display.

■ Press the ◀◀ rewind button to rewind the video tape.

"F-RWD" will light on the FL display.

■ Press the ■ stop button to stop fast forward or rewind.

"STOP" will light on the FL display.

Note:

- If the video tape ends during playback it will stop and rewind automatically.
- The I-HQ feature operates automatically during playback. It can be cancelled, or reset, by pressing the I-HQ button.

MESECAM playback/recording

You can watch MESECAM (Middle East SECAM) tapes or record MESECAM broadcasts with this VCR.

■ Press the remote control's PAL/MESECAM button until MESECAM lights on the FL display.

Press the button again to return to the normal PAL system. The MESECAM display will disappear from the FL display.

Still picture and frame advance

During playback the still picture feature can be used to freeze the playback picture. The picture can then be advanced one frame at a time.

■ Press the ►◀ still button during playback to freeze the picture.

"STILL" will appear on the FL display.

■ Press the ►◀ still button repeatedly to advance the frames.

Each time the button is pressed the still picture will advance one frame.

■ Press the ► play button to resume playback.

Note:

- If "noise bars" appear on the screen, refer to the tracking section in the following section.
- After a frame has been frozen for approx. 5 minutes, the still mode will disengage to protect the video tape.

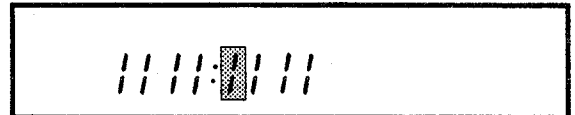
Tracking/Picture/Stability adjustment

Only the remote control buttons can be used for the following operations.

To correct tracking during the playback, multi-speed playback, quick finder and slow modes:

■ Press the AUTO TRACKING button.

If the tracking is not corrected satisfactorily, press the remote control < or > button until the picture is clear. During manual adjustment the tracking position will be shown on the FL display. This will disappear automatically when adjustment has been completed.



To correct tracking during the still mode:

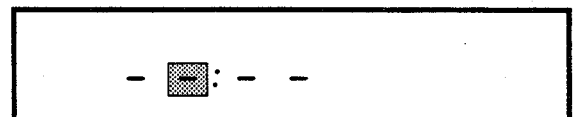
■ Press the < or > button repeatedly until the picture is clear.

The tracking position will not be shown on the FL display.

To correct the picture sharpness during the playback mode:

■ Press the ^ button repeatedly to sharpen the picture or press the v button to soften the picture.

During adjustment the picture control position is shown on the FL display. This will disappear automatically when adjustment has been completed.



To correct picture shake during the slow motion or still mode:

■ Press the ^ or v button until the picture shake is corrected.

Multi-speed playback

The multi-speed playback feature can be used to increase or decrease the playback speed.

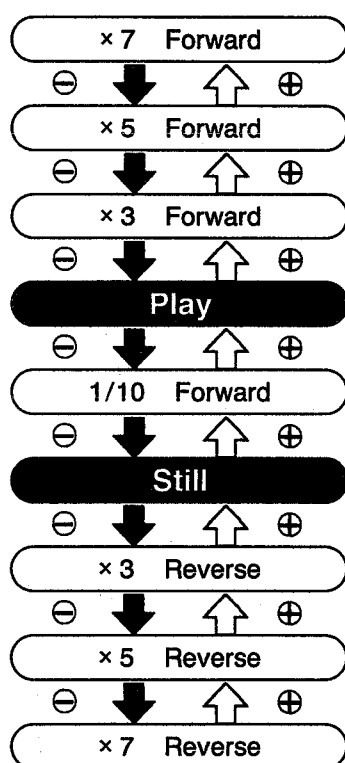
The tape speed can be increased up to 3, 5 and 7 times the normal playback speed in the forward or reverse directions. In the forward direction the speed can be reduced to 1/10 of the normal speed, or a still picture can be achieved.

■ Press the remote control's MULTI-SPEED PLAY ⊕ or ⊖ button repeatedly during playback until you reach the speed that you want.

■ Press the play ► button to resume normal playback.

Note:

- Slow motion playback will be cancelled after 5 minutes to protect the video tape.



⊕ : Press the MULTI-SPEED PLAY ⊕ button.

⊖ : Press the MULTI-SPEED PLAY ⊖ button.

Quick finder (cue/review)

During playback the quick finder function can be used to visually locate any point on a recorded tape. During quick finder playback the picture will go forwards or backwards rapidly. Disturbances in the quick finder picture are normal and do not indicate a problem with the VCR.

■ During any playback mode (play, still, slow, etc.) press the fast forward (cue) ►► or rewind (review) ◄◄ button. There are two ways to operate the quick finder mode. One way is to keep the button held down until you reach the part that you want to watch, and when you release it playback starts automatically. The second way is to press the button quickly and when you reach the part that you want to watch, press the play button.

Note:

- "CUE" or "REVIEW" will appear on the FL display for about 4 seconds.
- You can switch directly between cue and review.

Index search

The index search feature uses index codes, that are automatically added to the video tape when programmes are recorded on the VCR (except recordings begun from the recording pause mode).

You can go directly to the beginning of any recorded section that has an index code and you can skip as many index codes as you like until you find the section that you want to watch (you can skip up to 99 index codes).

■ Press the remote control's index search forward ►► or reverse ◄◄ button (during the stop or play mode).

For example, to go to the 4th index code from your starting point (forward or reverse), press the button 4 times. When the tape reaches the section that you select, playback will begin automatically.

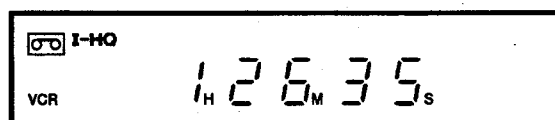
Note:

- When the index search reverse button is pressed once in the middle of a programme, playback will start from the beginning of that programme.
- This feature will not operate with tapes that do not have index codes.
- During index search "SRCH" and the index number will be displayed on the FL display.
- There must be more than one minute between index codes for this mode to operate properly.

Tape counter

The tape counter is displayed during playback and shows the elapsed time of the video tape (in hours, minutes and seconds).

The tape counter will not count unrecorded spaces on the tape.



■ To reset the counter to zero, press the COUNTER RESET button.

The tape counter will also be reset when a video tape is inserted in the VCR.

Recording TV programmes

Only programmes on preset TV stations can be recorded with the following operation. If you have not already preset the TV stations, refer to the "Presetting TV stations" section.

The use of E-300 tapes is not recommended.

- 1 Load a blank video tape.**
If the video tape's recording defeat tab has been removed, cover the cavity with adhesive tape before loading.
- 2 Select the station that you want to record with the CHANNEL buttons.**
- 3 Press the REC (Recording) button until "REC" lights on the FL display.**
The REC button must be pressed slightly longer than other buttons. This is a built-in feature to prevent accidental recording.
- 4 To stop recording, press the stop ■ button.**
To temporarily stop recording, press the PAUSE button. To resume recording, press the REC button.

Note:

- If you press the POWER button during recording, the VCR will record to the end of the tape, rewind it and then turn the power off automatically.
- In step 3, the PAUSE button on the remote control can be pressed in place of the REC button. The VCR will then go to the recording pause (standby) mode. When you want to start recording press the REC button. Recording pause will be released after approximately 30 minutes to protect the video tape.
- If the tape ends during recording it will stop and rewind automatically.
- To eject the tape from the recording mode, press the remote control stop button and then the eject button (or press the VCR stop/eject button twice).
- As long as "REC" is on the FL display the VCR is recording.

I-HQ recording

For I-HQ recording, follow the above instructions and in-between steps 2 and 3 perform the following operation.

- **Press the I-HQ button then the REC button and hold both buttons down until the I-HQ indicator appears on the FL display.**
The I-HQ indicator will flash while the auto tape tuning process is in operation. When the process is completed the indicator will stop flashing and remain lit. The VCR will then be in the recording pause mode.

Note:

- The I-HQ feature takes approximately 15 seconds to complete auto tape tuning. For full information on the I-HQ feature refer to "The Intelligent-HQ (I-HQ) feature" section.

Before proceeding:

- Turn on the TV and VCR.
- Make sure that the TV is set to the video channel or that the TV's TV/VCR switch is set to VCR (refer to "Video channel").

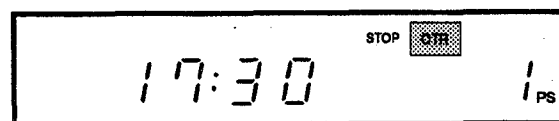
OTR (One Touch Recording)

The OTR feature is used to set the stop time of a recording that has already begun.

For example, you may have started recording a programme manually and you want to go out, or go to bed, before the recording is finished. You can use the OTR feature to set a time for the recording to stop.

The stop time can only be set to the hour or half hour.

- 1 During recording, press the OTR button until "OTR" and "STOP" light on the FL display.**
The VCR has to be in the recording mode for at least 5 seconds until the OTR feature can be used.



- 2 Press the OTR button to set the stop time (up to a maximum of 7 hours 30 minutes).**
The first time the button is pressed the time will be adjusted to the half hour or hour. For example, if the time is 18:12 the clock will be set to 18:30, if the time is 18:35 it will be set to 19:00. After this, each time the button is pressed the time will advance at 30 minute intervals. The "STOP" display will disappear after the stop time has been set.

- **To cancel the OTR mode, press the TIMER button. The VCR will go to the ordinary recording mode ("OTR" disappears from the FL display). To stop recording, press the stop ■ button.**

Note:

- In step 2, if you press the button until "END" lights on the FL display, the VCR will record to the end of the tape, eject it and then turn the power off.
- The power will be automatically turned off when recording is finished or if the tape runs out.
- During recording all other operations of the VCR are cancelled.
- This feature will not operate if the clock is not set.

Tape counter

- During recording, to display the tape counter on the FL display, press the remote control's COUNTER RESET button once (the tape counter will appear for a few seconds).

To reset the counter to zero, press the button twice.

To watch a different TV programme than the one being recorded

- 1 Set the TV's TV/VCR switch to TV.
- 2 Set the TV's channel selector to the channel you wish to watch.
When you want to return to the programme being recorded, set the TV back to the video channel.

Note:

- If you are using a video/audio connector with your TV (refer to "Connections"), the TV/VCR button on the remote control can be used in place of the TV's TV/VCR switch.

Index codes

Each time recording begins, an index code is added to the video tape (except if started from the recording pause mode). This index code is later used during the index search operation (refer to "Playback"). While recording, additional index codes can be added at any point by pressing the REC button on the remote control ("REC" will flash on the FL display for a few seconds).

SHOWVIEW timer recording (215EOH only)

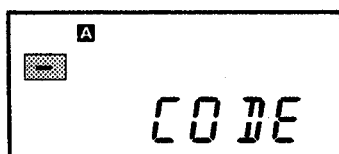
Initial setting

SHOWVIEW is a quick and easy way of setting your VCR for timer recording. All you have to do is enter a few numbers (shown next to the TV programme in the TV magazine or newspaper) into the remote control and the TV channel/date/start/stop times are entered automatically.

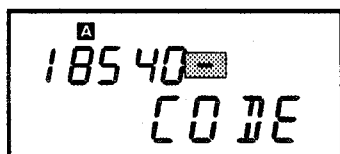
Note:

- Make sure that the remote control and VCR's clocks are set correctly before programming.

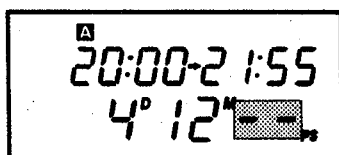
- 1 Press the **SHOWVIEW** button on the remote control.



- 2 Enter the code number of the TV programme that you want to record with the 1 - 0 buttons. Press the < button if you want to cancel the last number that you entered, each time you press the button, the number to the left will be cancelled. To cancel the whole number, press the CANCEL button.



- 3 Press the **OK** button. The programme date, start/stop time will be displayed. "Err" will appear if a non recognizable code is entered. In this case, re-enter the correct code. If the programme is on every day or once every week, you can record it automatically by pressing the **DAILY** or **WEEKLY** button.



- 4 Enter the **PS** number of the channel that the programme is being shown on. For example, the programme you want to record is on LA2. If your VCR is set so that LA2 is on PS 2, then you enter 0 then 2.

- 5 Point the remote control at the VCR and press the **OK** button.

The data will be transferred to the VCR. "FULL" will appear on the FL display if all 4 programmes already have data entered. To change or cancel existing data, refer to "NOTES ON TIMER RECORDING" at the end of the "Timer recording" section.

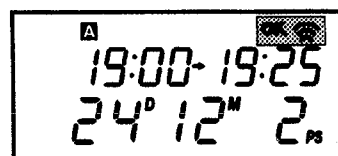
- 6 Press the **SHOWVIEW** button to return to the normal mode.

- 7 Press the **TIMER** button. The timer and I-HQ indicators will appear on the VCR's FL display. The VCR is now in the timer mode and recording will start and stop automatically at the programmed time.

Note:

- The I-HQ feature works automatically during timer recording.
- If the loaded video tape's recording defeat tab has been removed, the tape will automatically be ejected when the **TIMER** button is pressed.
- If a tape is not loaded, the VCR will not enter the timer mode and will return to the normal mode. In this case, load a tape and press the **TIMER** button again.
- If the video tape runs out during timer recording, the VCR will automatically eject the tape and turn itself off.

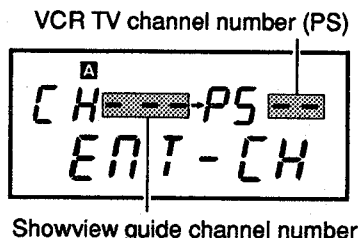
Step 4 only has to be performed once (for each preset channel), as the remote control will memorize and automatically enter the channel number the next time that a code number is entered for that channel (LA2 in this case). The following display will appear in place of that shown in step 3, and step 4 can be omitted.



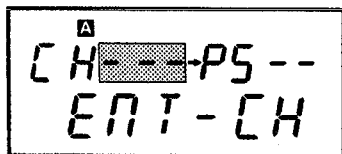
SHOWVIEW IS A TRADEMARK APPLIED FOR BY GEMSTAR DEVELOPMENT CORP. SHOWVIEW SYSTEM IS MANUFACTURED UNDER LICENSE FROM GEMSTAR DEVELOPMENT CORPORATION.

In order to operate SHOWVIEW recording, each TV station is assigned a SHOWVIEW guide channel number. For example, TVE 1 may be assigned to guide channel 1. If you have a list of the guide channel numbers, in your TV magazine etc., you can programme the remote control in advance and step 4 on the previous page can be omitted.

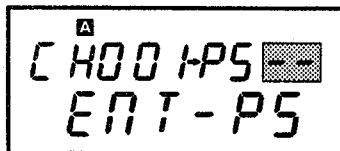
The example below supposes that you have set the VCR to receive TVE 1 on PS channel 1 and that the SHOWVIEW guide number is 1.



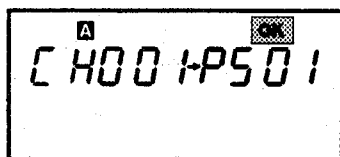
- 1 Press the remote control's **CLOCK/CH** key twice.
The guide channel setting display will appear.



- 2 Enter the **SHOWVIEW** guide channel number (1 = TVE 1 etc.) with the 1-0 buttons.
To enter a single digit number press 0,0 and then the number. To enter 1, press 0,0 and then 1 (001) etc..



- 3 Using the example mentioned above, enter 01 with the 1-0 buttons.
Now SHOWVIEW guide channel 1 (TVE 1)= preset channel 1 (PS1) on your VCR.



- 4 Press the **OK** button.
To continue memorizing guide channels, repeat steps 2 to 4.

- If "FULL" appears in the display it means that the memory is full.
To continue setting the guide channel numbers, search for an unwanted programme with the **REVIEW** button, press the (✱) **CANCEL** button and the data will be erased, then continue with steps 2 - 4.

- 5 Press the **CLOCK/CH** button to return to the normal mode.

Note:

- If you ever change the preset TV channels on the VCR, you must reset the remote control's PS number: Repeat the above instructions, but in step 2 press the **REVIEW** button to go to the original PS number, then continue with steps 3-5.

Timer recording

Up to four programmes can be programmed for recording, and programming can be done up to one year in advance.

Only programmes on preset TV stations can be recorded using timer recording. If you have not already preset the TV stations, refer to the "Presetting TV stations" section.

There are three types of timer recording to choose from:

One time recording

To record a programme that is only broadcast once.

Weekly recording

To record a programme that is broadcast once every week: every monday (E-MON), every tuesday (E-TUES) etc.

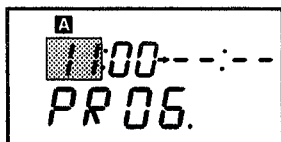
Daily recording

To record a programme that is broadcast daily: MON-FRI or MON-SUN.

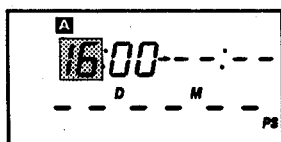
Programming by remote control

If the LC display clock has not been set or shows the wrong time, set the clock before proceeding (refer to "Setting the clock").

- 1 Press the PROG. button (211EOH).
Press the SHOWVIEW button twice (215EOH).



- 2 Set the start time hour with the ^ or v button.
^ : Press to count up.
v : Press to count down.



Note:

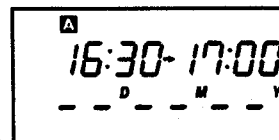
- Numbers can be entered with the 1-0 buttons, in place of the ^ and v buttons.
To set a single digit number press 0 (zero) first, then press the number. For example, to set 8:15; press (0) zero, then 8, then 1, and then 5.
If you use the 1 - 0 buttons for data entry you do not need to press the > button to start the next data flashing.

- 3 Press the > button.
The minutes will flash.

Before proceeding

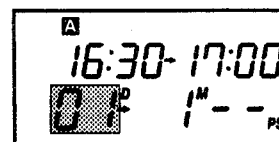
- Turn on the TV and VCR.
- Make sure that the VCR and remote control clocks are set.
- Make sure that a tape is loaded.

- 4 Set the start time minutes and stop time hour and minutes with the <, >, ^ and v buttons.
When the ^ or v button is pressed continuously, the minutes will increase or decrease at 5 minute intervals.



- 5 Press the > button.
The date will flash.

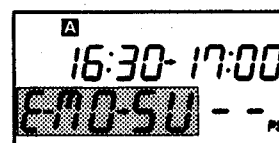
- 6 Set the date for recording with the ^ or v buttons.
When the ^ button is pressed, the date will advance until it reaches the same day of the next month, followed by weekly recording (E-MON etc.) and then daily recording (MON-FRI/MON-SUN).
When the v button is pressed the order will reverse.



One time recording



Weekly recording



Daily recording

- 7 Press the > button.
The channel number will flash.

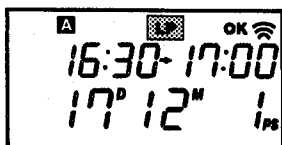
Note:

- To set the month manually: from the PS position press the < button and enter the month with the ^/v buttons, then continue from step 7.

- 8 Set the channel number with the ^ or v button.



- 9 Press the OK button.**
The transmit indicator and "OK" will flash to indicate that the programmed data is now ready to be transmitted.



Note:

- If you want to change data before transmitting, use the < or > button to reach the data, and use the ^ or v or 1-0 buttons to correct the data. Then press the OK button.

- 10 Point the remote control at the VCR's remote sensor window and press the OK button.**

The programme data will be transmitted to the VCR and the programme number (1-4) will appear on the FL display.

"FULL" will appear on the FL display if all 4 programmes already have data entered. To change or cancel existing data, refer to "NOTES ON TIMER RECORDING" at the end of the "Timer recording" section.

- 11 Press the PROG. button (211EOH) to return the remote control to the normal mode.**
Press the SHOWVIEW button (215EOH) to return the remote control to the normal mode.

- 12 Press the TIMER button.**

The timer and I-HQ indicators will appear on the FL display. Unless released, the VCR will remain in the timer mode until all timer recording is finished.

During the timer mode all other operations of the VCR will be suspended (except for the clock) until the VCR is released from the timer mode.

- **To release the VCR from the timer mode, press the TIMER button.**

The TIMER indicator of the FL display will disappear, power will come back on, and timer recording will be suspended. If the VCR is released from the timer mode while timer recording is in progress, the VCR will continue to record until the stop button is pressed or the video tape runs out.

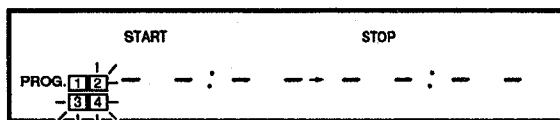
- **Press the PROG.LIST button to review the programmes and times on the FL display.**

Note:

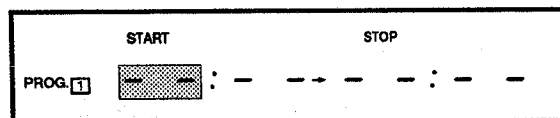
- The I-HQ feature works automatically during timer recording.
- If the loaded video tape's recording defeat tab has been removed, the tape will automatically be ejected when the TIMER button is pressed.
- If a tape is not loaded, the VCR will not enter the timer mode and will return to the normal mode. In this case, load a tape and press the TIMER button again.
- If the video tape runs out during timer recording, the VCR will automatically eject the tape and turn itself off.

Programming with the front panel buttons

- 1 Press the **PROG.** button on the VCR.
The programming display will appear on the FL display. If the clock is not set, the clock display will appear. In this case set the clock and press the **PROG.** button again.



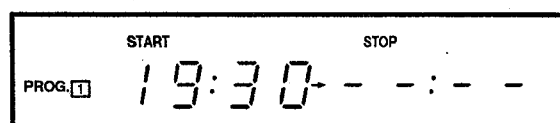
- 2 Select a programme number (1-4) with the **PROG.** button.
The programme selected will stop flashing.
- 3 Press the **OK** button. (DO NOT hold the button down as this will cancel all the data).
The start time hour position will start flashing.



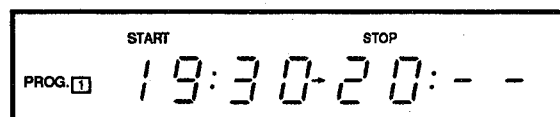
- 4 Press the **PROG.** button to set the start time hour.
Each time the button is pressed the hour will increase. If the button is held down the hours will change faster.



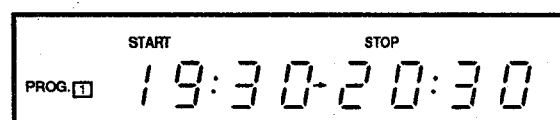
- 5 Press the **OK** button.
The start time minute display will start flashing.
- 6 Press the **PROG.** button to enter the start time minutes.
When the button is held down the minutes will increase at 10 minute intervals.



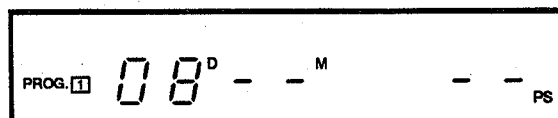
- 7 Press the **OK** button.
The stop time hour display will start flashing.
- 8 Press the **PROG.** button to enter the stop time hour.



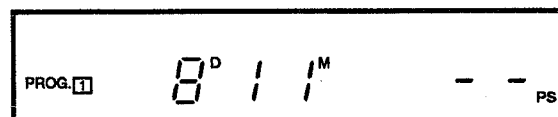
- 9 Press the **OK** button.
The stop time minute display will start flashing.
- 10 Press the **PROG.** button to set the stop time minutes.



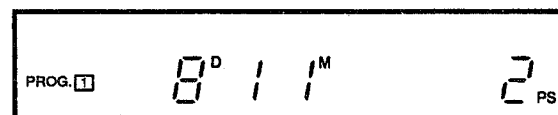
- 11 Press the **OK** button.
The Day (D), Month (M) and channel (PS) display will appear. The day position will be flashing.
- 12 Press the **PROG.** button to enter the day. Or select **E-MON** etc. or **MON-FRI/MON-SUN**.
Keep pressing the button and the date will increase and then change to E-MON, E-TUE etc. and then MON-FRI/MON-SUN. This will repeat cyclically if you keep pressing the button.



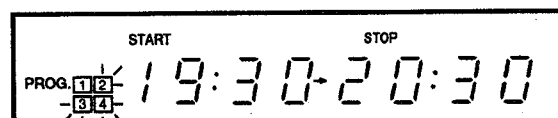
- 13 Press the **OK** button.
The month display will appear.
- 14 Press the **PROG.** button to set the month.



- 15 Press the **OK** button.
The PS (Pre Set TV channel) display will flash.
- 16 Press the **PROG.** button to enter the number of the channel that you want to record.



- 17 Press the **OK** button.



To continue programming, press the **PROG.** button until a blank programme appears on the FL display and then repeat steps 2-17.

- 18 Press the **TIMER** button.
If a tape with the recording defeat tab removed is inserted, the tape will be ejected.
If a tape is not loaded, the VCR will not enter the timer mode and will return to the normal mode. In this case, load a tape and press the **TIMER** button again.

Note:

- During programming, you can change any of the data with the remote control's <, >, ^ or v buttons (</> to go to the data and ^/v to change the data).

The remote control can also be used in the previous operation (steps 1-18).

Press the PROG. button (on the VCR - 211 EOH) (on the remote control or VCR - 215 EOH) then follow steps 2-18 using the remote control buttons instead of the VCR.

Alternatively, the <, >, ^ or v buttons can be used for steps 2-16) < / > : to move to the next or previous data.

^ : to increase the number.

v : to decrease the number.

NOTES ON TIMER RECORDING

If data is not entered within five minutes of the display starting to flash, all data will be cancelled and you will have to start from the beginning again.

Cancelling timer recording:

If, at any time during programming, you want to cancel the programme data, press and hold the VCR OK/CANCEL button for a few seconds or press the remote control CANCEL button. All the data will be cancelled.

If you want to cancel any programmes later on, press the PROG.LIST button until you find the programme that you want to cancel then press the OK/CANCEL button for a few seconds until the data is cancelled.

Reviewing timer programmes:

If you want to review the programme dates, times or channel numbers, press the PROG.LIST button to go through the programmes.

Each timer programme will be displayed (cyclically) on the FL display each time that you press the button.

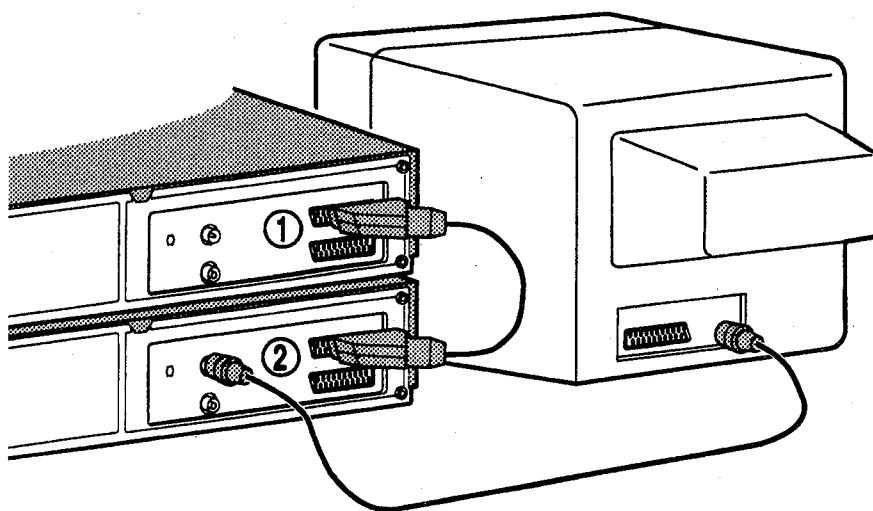
When a programme is displayed, you can alter any of the data with the remote control's ^, v, < or > buttons (< / > to go to the data and ^ / v to change the data).

Timer mode:

When the VCR is in the timer mode (the timer display is lit on the FL display) none of the other VCR functions (playback, recording etc.) can be used.

If you want to use the other functions, the VCR must be released from the timer mode. To do this, press the TIMER button until the timer display disappears from the FL display.

Copying video tapes



The instructions below are for using this VCR as the recording VCR.

- 1 Connect the playback ① and recording ② VCRs, using the above connection.**
Connect the TV to this VCR in order to monitor the programme being recorded.
- 2 Turn on both VCRs and the TV.**
- 3 Load a blank tape into this VCR and the prerecorded tape into the playback side VCR.**
- 4 Press the AV button to select the external channel.**
"AU" will light on the FL display.
- 5 Press the I-HQ button then the REC button, hold both buttons down until the I-HQ indicator appears on the FL display.**
The I-HQ indicator will flash while the Auto Tape Tuning process is in operation. When the process is completed the indicator will stop flashing and remain lit. The VCR will then be in the recording pause mode.
- 6 Start playback of the prerecorded tape with the playback side VCR.**
If the playback VCR has the I-HQ feature, it should be switched on during playback.
- 7 Press the REC button until "REC" lights on the FL display.**
When recording has finished, press the CHANNEL button to release the VCR from the external mode.

Note:

- With this connection, this VCR can be used as either the recording or playback VCR (we recommend that you use it for recording).

The Intelligent-HQ (I-HQ) feature

Introduction

AKAI is the first company in the world to produce a VCR that uses this unique feature during recording and playback, so we would like to give you a brief introduction of what this feature does and how it works.

AKAI's newly developed "Intelligent-HQ" technology enables this VCR to achieve optimum performance, during recording or playback, when using high grade video cassette tapes. It does this by incorporating an Auto Tape Tuning system, as used in high quality audio cassette decks.

It is designed, during playback, to enhance the picture quality of recordings made on high grade or S-VHS tapes, and to improve the signal to noise ratio (S/N) of tapes that have been shown many times (normal rental tapes for example), where there may be picture "noise" because of frequent use.

When you are using S-VHS tapes (the highest quality video tape) for recording TV broadcasts, or dubbing, the quality achieved, with the I-HQ feature, is comparable with recordings made on S-VHS VCRs, giving you a wonderfully improved picture over normal (non I-HQ) VCRs.

The advantages of I-HQ

When recording with high grade video tapes (S-VHS for example) on a normal (non I-HQ) VCR, you don't get the full benefit of the visual range of these tapes. This is because most VCRs are adjusted to optimum performance with normal tapes, as these are the most widely used. Now you can get the full benefit of high grade tapes with our I-HQ feature which "reads" the characteristics of the tape you are using (during playback or recording) and ensures the maximum performance possible (within the limits set by VHS standards).

Of course, using the I-HQ feature for recording and playback with high grade tapes will result in an even more dramatic improvement in picture quality, providing you with a more textured and lifelike picture.

Note:

- This VCR is perfectly compatible with non I-HQ VCRs.
- Please take care when choosing your tapes as not all tapes labeled "High Grade" are really high grade tapes. If you are in doubt use "S-VHS" or "PRO" tapes. Also, as even tapes made by the same company differ in characteristics (between E-180 and E-240 for example) we recommend the use of E-180 tapes for the very best results.

How I-HQ works

During recording:

When you press the record button and the I-HQ button the Auto Tape Tuning process begins: Recording proceeds for approximately two seconds, then the tape is automatically rewound and these two seconds are played back, at this time the I-HQ feature reads the characteristics of that specific tape and memorizes it, after which the tape is again rewound to the starting position and the VCR enters the recording pause mode (the entire process taking about 15 seconds). This operation optimizes the tapes full potential, and the tapes characteristics are stored in the microprocessor's memory until the tape is ejected, or the power supply is cut off from the VCR.

Note:

- If a tape is damaged, or faulty, the Auto Tape Tuning process may take a little longer, as it will "read" the characteristics once more.

During playback:

When you play back a tape using the I-HQ feature, it automatically adjusts to the recorded condition of the tape and optimizes noise cancellation and the reproduction of details.

Note:

- A tape recorded by S-VHS format (on an S-VHS VCR) can not be played back on an I-HQ VCR and vice versa, these systems are not interchangeable.
- Although you can choose to have the I-HQ feature on or off, we recommend that it always be left on during playback and recording.

Troubleshooting

Should you have any problems during the operation of this VCR, please check that all the controls are set to their proper positions and that all cables are properly connected (refer to this manual for the correct procedures). If a problem persists, refer to the advice below.

If the problem can not be corrected with the instructions below, write down the model and serial number and all pertinent data regarding warranty coverage, as well as a clear description of the problem, and contact your nearest AKAI service centre.

PROBLEM	CHECK POINT
There is no power to the VCR.	Is the mains lead plugged in?
The eject button does not work.	If the VCR is in the timer mode the eject button will not work, press the TIMER button to cancel. If the VCR is in the recording mode press the stop button then eject.
There is no picture on the TV screen.	Is the TV set to the video channel? Is the antenna connected correctly? Is the "AV" indicator lit on the FL display? If so press the CHANNEL buttons to cancel it. Is the VCR in the correct mode?
The VCR will not record.	Is the recording defeat tab of the video tape removed? If so cover the cavity with adhesive tape. The record button must be pressed for a few seconds to start recording. Is the "AV" indicator on the FL display lit? If so press the CHANNEL buttons to cancel it.
The VCR does not operate using the remote control.	Replace the batteries in the remote control.
Poor quality of all TV stations.	Check that the TV is properly tuned to the video channel. Check the antenna connections. Is the TV/VCR switch set to VCR?
The video tape is ejected when the record button is pressed.	Is the recording defeat tab removed on the video tape? If so cover the cavity with adhesive tape.
There are disturbances in the playback picture.	Adjust with the AUTO TRACKING button. Adjust with the multi control buttons.
The FL display is flashing.	A power failure has occurred (exceeding 60 minutes). The clock and programme data will have to be reset.
The quick finder does not function.	Check that the VCR is in the playback mode.
Timer recording does not function.	Is the clock set to the correct time? Are the date, start and stop times correctly set?
"Err 1, 2, 4 or 5" appears on the FL display	Press the POWER button a few times. The display should disappear. If the display remains on the FL display, contact your Akai service centre.
"Err 3" appears on the FL display	This usually indicates condensation in the VCR. Wait 1 hour and then press the POWER button a few times. The display should disappear. If the display remains on the FL display, contact your Akai service centre.

Note:

- When you have finished using the VCR eject the cassette and turn the power off.
- The VCR may become warm during operation, this is normal and does not indicate a fault. However, make sure that the VCR is well ventilated, and do not place anything on top of the ventilation holes.

Specifications

Format	VHS standard (PAL, MESECAM)
Video recording system	Rotary, slant azimuth two-head helical scan system
Rotary heads	2 video heads
RF. input	System B, G (PAL, SECAM) VHF ch 2 - 4, 5 - 12 UHF ch 21 - 69 Cable ch S1' - S3', S1 - S41
RF. output	System G type modulation UHF ch 30 - 39 adjustable (preset ch 36)
Recording (line input)	PAL, SECAM (MESECAM Tape)
Playback (line output)	PAL, SECAM (MESECAM Tape)
Video	
Line input level	0.5 - 2.0 Vp-p/75 ohms, unbalanced
Line output level	1.0 Vp-p/75 ohms, unbalanced
S/N ratio	More than 45 dB
Horizontal resolution	More than 250 lines
Audio	
Line input level	-6dBm/50 K ohms, unbalanced
Line output level	-6dBm/1 K ohms, unbalanced
S/N ratio	More than 40 dB
Frequency response	70-10,000 Hz
Recording/playback time ..	240 min. with E-240 cassette
Tape speed	23.39 mm/sec
Quick finder	Approx. 7 times normal speed
FF, REW time	Approx. 2 min. with E-180 cassette
Timer	
Programme	4 programme / 1 year and OTR
Clock reference	Quartz crystal
Display	FL (Tape counter, Timer etc.)
Power requirements	220-230 V AC, 50 Hz
Power consumption	18 W
Operating temperature	5°C - 40°C
Dimensions	425(W) × 90(H) × 276(D) mm
Weight	4.0 kg

Standard accessories

AC power cable	1
Antenna cable	1
Remote control unit	1
Batteries for remote control	2

- For improvement purposes, specifications and design are subject to change without notice.

Maintenance

When a dirty tape is used, dirt will accumulate on the video heads. This will cause disturbances on the TV screen which cannot be eliminated with the VCR's tracking control or the TV's fine tuning control. If this should occur, the heads as well as other internal parts must be cleaned. VCR cleaning must be done by a qualified service shop or an authorized AKAI service centre. This VCR is a finely precisioned instrument, and contains no customer serviceable parts, so never open the VCR yourself. Take it to a qualified service shop or to an authorized AKAI service centre to be cleaned.